

Main and Auxiliary Circulating Pumps, Lubricating Oil pumps, Fuel Service and Transfer pumps, General Service, Fire and Bilge pumps, Emergency Bilge pump, Hot Fuel and Salt Water pumps all examined.

Water Light Oil Pumps examined and accumulator tested. The Pumping arrangement examined and tried out under working conditions.

All Fuel Heaters, Oil Heaters and Calorifiers examined and tested. Air and Oil Coolers examined and tested.

The Main and Auxiliary Steam Lines examined and tested. The Windlass, Capstan and Steering Gear (Main & Auxiliary) examined.

All Main Boilers (8) examined in their entirety and hydraulically tested to 600 lbs/sq. Safety Valves subsequently adjusted under steam to pressure stated. Details of fitting in Boilers is appended. The Chemical Fire extinguishing arrangements are in order.

The Electrical Installation has been examined, and outside the Machinery space has been largely renewed, in this connection a Report 13 has been completed.

Upon Completion of the repairs (shown hereafter) four days sea trials were carried out with satisfactory results.

The Main Turbine Overspeed Governor were tested and found to operate at PORT 3250 RPM. L. STAR 3270 RPM.

The Bilge and Ballast systems were tried out including the Bilge Injections and Emergency Bilge pumps and found satisfactory.

The Main and Auxiliary Steering gear and Gyro were tried out and found satisfactory.

The Windlass was tried out with satisfactory results. The other auxiliary machinery had been tried out during basin trials and found in order.

REPAIRS NOW EFFECTED.

Screw shafts now fitted
PORT INNER KROYOS NO 587 24/2/31 W.C.
STAR " " " " " "
PORT OUTER " " 19613
STAR " " 19613
SPARE (2) " " 19613

THE PORT & STARBOARD OUTER Screw shafts fitted with new liners 10/49
BOTH SPARE " " " " " " 9/49

All eight stern bushes renewed and the four forward and thrust modified in accordance with the plan approved 11/8/49 (Hewith).

Four new propellers fitted:
PORT INNER R.I.H. 2641 P.M.B. 27/5/49
STAR " " " " " " 27/5/49
PORT OUTER R.I.H. 2640 P.M.B. 17/5/49
STAR " " " " " " 20/5/49

Kape guards all renewed.

The Main and Auxiliary Turbines were opened up and completely overhauled by the builders (Messrs Fraser & Chalmers).

Ballast and General Service Pumps. Impellers, shafts and bearings all renewed. Emergency Generator.

Sudgen pins, top end bushes and piston rings all renewed.

Oil Fuel Transfer Pumps. Shafts machined and Ball races renewed.

Boilers.

4 Superheater Valves and spindles renewed.

8 Check Valve seats renewed.

1180 Generator Tubes renewed

16 downcomer " "

1500 Air " "

During preliminary trials one of the 4" bottom row tubes in the Starboard After Boiler in the After Boiler Room burst on account of suspected shortage of water. The burst tube was 12" from Starboard.

As a result of the foregoing all the 4" tubes - the bottom row of this boiler and all the generator tubes in the Starboard half were renewed.

The Owners Representative then decided to renew the bottom row tubes in all boilers.

Upon completion of the this work the 8 Boilers were retested to 600 lbs/sq. hydraulically and found in good order.

ALTERATIONS.

Shipside connections and pipes have been fitted to supply circulating water to the after Turb. Generator when the vessel is in dry dock, in accordance with the plan approved 20/4/49 (Hewith).

The sea connections for Boiler Blow-Downs have been modified in accordance with the plan approved 18/11/49. (Hewith).

The H.P. evaporator blow-down sea connection now fitted as per approved plan 20/5/49 (Hewith).

The Boiler Water Sample Cooler has been installed as shown on the plan approved 13/1/50. (Hewith)

The Fuel Dosage System and Isolating valves have been fitted in accordance with the plan approved 16/11/49 (Hewith).

All material for the above alterations has been tested as required by the Rules.



NOTE. The low level water alarms on the Main Boilers were tied out and whilst working at the time it is not considered that they can be relied upon.

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NEW AUSTRALIA

Rpt. 9a.

Port of SOUTHAMPTON Continuation of Report No. 20458 dated 19th October, 1950, on the

MAIN BOILER, STEAM DRUM. PITCHINGS.

FORWARD BOILER ROOM.

PORT FORW		STARBOARD	
1/4"	3/16"	5/32"	5/32"

PORT AFT

STARBOARD AFT

3/16"	3/16"	3/16"	3/16"

AFTER BOILER ROOM

PORT FORW

STARBOARD FORW

1/8"	1/8"	1/8"	1/8"
5/32"	5/32"	5/32"	5/32"

PORT AFT

STARBOARD AFT.

1/8"	1/8"	1/8"	1/8"

SHOWING DEPTH (MAXIMUM) & APPROXIMATE POSITION OF PITCHING IN EACH BOILER DRUM.

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